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TITLE: Dietary Intake, Alcohol Consumption, and Menopausal
Status: A Comparison of Hispanic and Non-Hispanic White Women

PRINCIPAL INVESTIGATOR: Kathy Baumgartner

CONTRACTING ORGANIZATION: The University of Texas Health
Science Center at Houston
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PREPARED FOR: Commander
U.S. Army Medical Research and Materiel Command
Fort Detrick, Frederick, Maryland 21702-5012

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13. ABSTRACT (Maximum 200) The first year of work towards the completion of a doctoral degree, focused on breast cancer epidemiology, at the University of Texas School of Public Health (UTSPH), Houston, Texas has been completed. Data are a subset of that collected for the study, 'Breast Cancer Epidemiology in NM Hispanic Women'. The Principal Investigator of this training grant served as Project Director of this study conducted by the Epidemiology and Cancer Control Program at the University of New Mexico. This statewide, population-based case-control study includes approximately 711 cases and 844 matched controls. Incident cases (January 1, 1992 - December 31, 1994) were ascertained through the New Mexico Tumor Registry. Controls were selected and matched on health planning district, ethnicity, and age-group. The data collected included demographics, reproductive and medical history, medication usage, cigarette usage and alcohol consumption, ethnic identification and acculturation, occupational and environmental factors, and diet. The dissertation research will focus on dietary factors, stratified on ethnicity and menopausal status. These will include macronutrients and micronutrients, as well as history of alcohol consumption and alcohol as a percent of total energy. Coursework taken at UTSPH focused on gaining a deeper knowledge of epidemiologic methods, nutrition, cancer, and genetics.				
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FOREWORD

Opinions, interpretations, conclusions and recommendations are those of the author and are not necessarily endorsed by the U.S. Army.

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_____ In conducting research using animals, the investigator(s) adhered to the "Guide for the Care and Use of Laboratory Animals," prepared by the Committee on Care and Use of Laboratory Animals of the Institute of Laboratory Resources, National Research Council (NIH Publication No. 86-23, Revised 1985).

✓ _____ For the protection of human subjects, the investigator(s) adhered to policies of applicable Federal Law 45 CFR 46.

_____ In conducting research utilizing recombinant DNA technology, the investigator(s) adhered to current guidelines promulgated by the National Institutes of Health.

_____ In the conduct of research utilizing recombinant DNA, the investigator(s) adhered to the NIH Guidelines for Research Involving Recombinant DNA Molecules.

_____ In the conduct of research involving hazardous organisms, the investigator(s) adhered to the CDC-NIH Guide for Biosafety in Microbiological and Biomedical Laboratories.

Kathy B. Baumgartner 9/25/97
PI - Signature Date

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INTRODUCTION

The first year of work towards the completion of a doctoral degree, focused on breast cancer epidemiology, at the University of Texas School of Public Health, Houston, Texas has been completed as outlined in the original statement of work. The details of the subject, purpose, and scope of the research as well as background of previous work was described in detail in the original proposal. Briefly, the focus of this predoctoral fellowship and doctoral dissertation will be on diet and alcohol and their associations with other risk factors for breast cancer, including estrogen receptor status. The basic hypothesis is that these factors may be important in the increasing rates of breast cancer.

The issues related to dietary factors, history of alcohol consumption and relationship to estrogen receptor status are timely as is their relationship to the increased incidence and mortality of breast cancer. These factors are of significance for women with breast cancer and especially so for Hispanic women, given the paucity of information on dietary and alcohol practices for this population (1) . Additionally, New Mexico has the largest percentage of Hispanics of all states in the United States (2) . In addition, the Hispanic population of New Mexico is also characterized by a unique stability; the majority (75%) report lifelong residence in the state. This fellowship application provides an opportunity to further research on the primary cancer for Hispanic women (3) , who will represent half of the second largest minority group in the US population by the year 2030 (4) .

The New Mexico Women's Health Study (NMWHS), a statewide, population-based case-control study, included approximately 711 cases and 844 frequency matched controls. Incident cases between January 1, 1992 and December 31, 1994 were ascertained through the New Mexico Tumor Registry (NMTR), one of the population-based cancer registries participating in the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program since 1973. Rates and trends of cancer incidence, mortality and survival are calculated by ethnicity, gender, and age groups for comparison with national and international data.

Controls were selected and matched on ethnicity, age-group, and geographic region. The data collected include demographics, reproductive and medical history, medication

usage, use of cigarettes and alcohol, ethnic identification and acculturation, occupational and environmental factors, and diet. Hormone receptor status data, collected by the NMTR for breast cancer cases will be linked to the data collected for cases by the NMWHS.

The specific hypotheses, technical objectives or specific aims and methods which includes a description of the NMWHS study, data collection, statistical methods, and preliminary data were discussed in detail in the original proposal.

BODY OF ANNUAL REPORT

I. Statement of Work: Year 01 - Completed Tasks

The first performance period (September 1, 1996 - September 30, 1997) of the predoctoral fellowship "Dietary Intake, Alcohol Consumption, and Menopausal Status: A comparison of Hispanic and Non-Hispanic White Women" has been completed. The principal investigator formed an advisory committee in Fall, 1996, composed of: Dr. John F. Annegers, Professor of Epidemiology; Dr. Ralph Frankowski, Professor of Biometry; and Dr. R. Sue McPherson, Assistant Professor of Epidemiology (Appendix A1 - approval of Ph.D. Advisory Committee form). A total of 36 credit hours were completed under the supervision of the advisory committee (Appendix A2 - list of courses), the minimum required prior to the Ph.D. Qualifying Examination.

The principal investigator attended the 30th Annual Meeting for the Society for Epidemiologic Research, held from June 12 - 14, 1997 in Edmonton, Alberta, Canada.

The qualifying examination was completed satisfactorily in August, 1997, permitting admission to candidacy for a doctoral degree.

II. Year 02: Summary of Plans

During the second performance period (October 1, 1997 - September 30, 1998) any pertinent additional individual coursework will be taken. Library research will be conducted towards the Ph.D. proposal and dissertation, and data analysis will be initiated.

A request to appoint a Ph.D. doctoral thesis committee will be submitted in the Fall, 1997, and will include at least the three advisory members mentioned above, and Dr. Jonathan

M. Samet, Professor and Chairman of Epidemiology at Johns Hopkins University, School of Hygiene and Public Health, who was the original Principal Investigator of the 'New Mexico Women's Health Study'.

Following approval of the doctoral thesis committee, a dissertation proposal will be submitted to the advisory committee for approval and to the Associate Dean for Research.

REFERENCES

1. Otero-Sabogal R, Sabogal F, Perez-Stable EJ, Hiatt RA. Dietary practices, alcohol consumption, and smoking behavior: ethnic, sex, and acculturation differences. *J of Natl Cancer Inst Monographs* 1995;18:73-82.
2. Becker TM, Wiggins CL, Elliott RS, Key CR, Samet JM. Racial and ethnic patterns of mortality in New Mexico. Albuquerque, NM: University of New Mexico Press, 1993.
3. Trapido EJ, Burciaga Valdez R, Obeso JL, Strickman-Stein N, Rotger A, Perez-Stable EJ. Epidemiology of cancer among Hispanics in the United States. *J of Natl Cancer Inst Monographs* 1995;18:17-28.
4. Ramirez AG, Villarreal R, Suarez L, Flores ET. The emerging Hispanic population: a foundation for cancer prevention and control. *J of Natl Cancer Inst Monographs* 1995;18:1-10.

APPENDIX A-1
List of Completed Courses

Fall 1996

PH1820 Applied Statistical Analysis (4)
PH1830 Advanced Statistical Methods in Epidemiology - Logistic Regression (2)
PH1831 Analysis of Survival Time Data (2)
PH2175 Principles of Toxicology I (3)
Topics in Cancer Prevention I (1)
12 credit hours

Spring 1997

PH2711 Advanced Epidemiologic Methods II (4)
PH2177 Toxicology - Toxic Agents (3)
PH2998 Pathology and Public Health (3)
PH3340 Genetic Epidemiology (2)
12 credit hours

Summer 1997

Regression and Logistic Regression Analysis (4)
The Biology and Epidemiology of Cancer (2)
Molecular Epidemiology (2)
Breast Cancer: Diet and Alcohol (4)
12 credit hours

APPENDIX A-2

Approval of Ph.D. Advisory Committee Form

THE UNIVERSITY OF TEXAS-HOUSTON HEALTH SCIENCE CENTER
SCHOOL OF PUBLIC HEALTH

REQUEST TO APPOINT A PH.D. ADVISORY COMMITTEE
TO BE SUBMITTED BY STUDENT'S ADVISOR.

DATE 11/14/96
STUDENT NAME Kathy B. Baumgartner

I SHOULD LIKE TO REQUEST THAT THE FOLLOWING FACULTY, REPRESENTING MAJOR AND MINOR
FIELDS OF CONCENTRATION, BE APPOINTED TO THIS STUDENT'S DOCTORAL ADVISORY
COMMITTEE.

John F. Annegers
FACULTY NAME - PRINTED

John F. Annegers
FACULTY SIGNATURE

Epidemiology
MAJOR FIELD

R. FRANKOWSKI
FACULTY NAME - PRINTED

R. Frankowski
FACULTY SIGNATURE

Biometry
MINOR FIELD

R. Sue McPherson
FACULTY NAME - PRINTED

R. Sue McPherson
FACULTY SIGNATURE

Cancer/Neuro
MINOR FIELD

I REQUEST THAT J. Fred Annegers, Ph.D. CHAIR THE COMMITTEE.

John F. Annegers
ADVISOR

☒ REQUEST APPROVED

☐ REQUEST COULD NOT BE APPROVED BECAUSE _____

DEAN B. Justice DATE 11-15-96

ORIGINAL: Student File
COPY 1: Advisor
COPY 2-4: Faculty Members
COPY 5: Student



School of Public Health
Office of the Dean

September 19, 1997

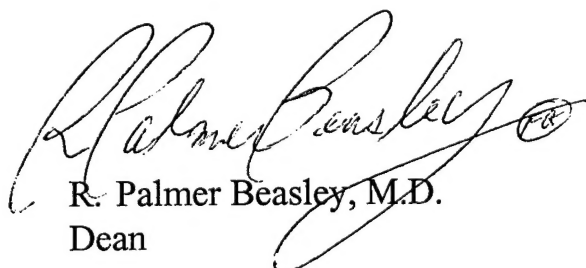
Kathy Baumgartner
School of Public Health
Student Mail Box

Dear Dr. Baumgartner,

Congratulations on the successful completion of your qualifying examination for the PhD degree which officially converts you from a doctoral student to a doctoral candidate.

We are pleased to have the opportunity to continue working with you as you proceed toward completion and presentation of an original research project that makes a substantial contribution to knowledge in community health sciences.

Yours sincerely,

A handwritten signature in cursive script, reading "R. Palmer Beasley, M.D.". The signature is written in dark ink and is positioned above the printed name and title of the signatory.

R. Palmer Beasley, M.D.
Dean

for RPB: fg
cc: Student Records
file/comp

Memorandum

September 16, 1997

To: Palmer Beasley

From: Fred Annegers

J.F.A.

Regarding: Kathy Baumgartner

It is my pleasure to announce that Kathy Baumgartner has successfully completed her qualifying examination for the Ph.D. program in epidemiology. The committee recommends that she proceed to the dissertation phase of her program.

cc.

Sue McPherson

Ralph Frankowski